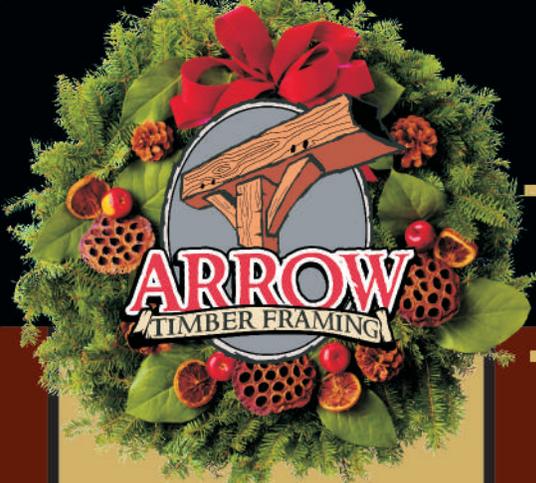


ARROW TIPS

Put Your Happiness On Display With Timber Living



The Timberline Lodge Story As Told by Arrow Timber Framing

In This Issue:

- Timberline Lodge Story 1
- The Smile Express 4
- Mantel Inspiration 4
- Memory Lane 6
- Special Offer for Winter.....6
- Recommended Reading 7
- Our Philosophy 7

adventurous

SOLID *daring*

ARTISTIC
lasting
satisfaction

GUARANTEED

ACHIEVEMENT

sure-fire
innovative

GENEROUS



Landmark Gazebo
Timberline Lodge

How can a structure so beautiful have such an ugly secret? Arrow Timber Framing was able to contribute to the Timberline Lodge story in 2010. That has left me with both a feeling of satisfaction and a feeling of conflict. Let me tell you how I experienced the beauty of Timberline Lodge - and discovered her secrets.

My first experience with Timberline Lodge was awe-inspiring. My family had a snowboarding outing in the winter of '07. This was five years after first falling in love with the craft of timber framing.

Before hitting the slopes, I spent some time admiring the beauty of the Lodge's architecture. Timberline has the classic Civilian Conservation Corps architectural touches which were a trademark for many projects here in the Northwest. But the Lodge also has unique touches, such as how its footprint and silhouette allow it to nestle into the mountainside. Everything about it was picture

perfect: the snow on the roof, the fading sunlight, and Mt. Hood in the background.

I ended up coming off the ski hill early that evening for two reasons. First, I wanted to have time to hang out in the Lodge and absorb as much of the atmosphere as I could. Second, I was worn out! My boys thought I was crazy, but I declined to use the ski lift... That gave me a good workout and prevented me from attempting escalating stunts which could result in serious injury. I figured my downhill runs would be pretty safe and mellow after hoofing it up the hill.

Entering the Lodge itself was a bit odd. A corrugated metal roof creates a tunnel, which keeps the snow off the main entry steps. This is obviously a seasonal stop-gap solution. I suppose any design, no matter how stunning, will leave room for improvement.

But from the original entrance on, the feeling is spectacular! Unbelievably huge arched entry beams and timbers, massive stone fireplaces, wide plank flooring... And so expansive and huge! Trying to calculate the total man-hours required to complete the project made my head spin.

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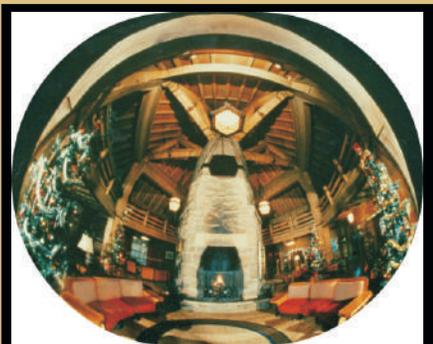
Timberline Lodge National Historic Landmark



The Timberline Story... continued

The main attraction is the hexagon lounge in the heart of the Lodge – it is roughly 60 feet across with a huge stone fireplace in the center. Six hexagonal timber posts support a wraparound balcony and continue up to support the roof. Back in the 1930s, these gargantuan posts, which are roughly 3 foot across, were shaped and hewn for the price-gouging sum of \$150 apiece!

After touring the entire area, I chose a couch on the balcony and settled in with my chocolate, book, and tea. I tried to read but the atmosphere was simply too attractive and distracting to concentrate. I realized I wanted to



Hexagon Lounge
Timberline Lodge

construct a project on the same scale someday. Little did I know that ATF would be timber framing a smaller project for the Timberline Lodge in the near future.

Our contribution, constructed in 2010, consists of a 28' tall hexagonal gazebo, from which hangs a 10' long engraved timber sign. Also included were three engraved timber way-finding signs. In my opinion, architect Mike Madias of DTLA did a fabulous job in designing a mini replica of the Timberline Lodge. There were a handful of improvements. Some we were paid for and some we donated as a tribute to the Lodge. They are as follows:

1) Carve traditional pockets for joinery to eliminate tacky bright metal clips.

- 2) Add beams to provide better support for both the hip and common rafters.
- 3) Upgrade the solar platform



deck from three-quarter plywood to 2X planking.

4) Incorporate copper caps for the exposed rafter tails.

5) Fully support the tension ring at the corners and improve the plate connection.

6) Eliminate a pressure-treated fascia board and replace it with stained fir to avoid an unsightly color clash with the rest of the timber structure.

I was worried about this tall gazebo being erected crookedly. I didn't want a Northwest version of the leaning Tower of Pisa! The gazebo derived its lateral strength from four massive metal plates embedded in the concrete foundation. The four hexagonal wood posts were then inserted into collars which protruded 3' above the foundation. Those base plates would have to be set with extreme accuracy to ensure that a 14' post, extended from a 3' high tube, would remain true.

My worries were alleviated when I hit upon the idea of pre-tensioning the posts. I would intentionally install the posts a little crooked in opposing directions. Then we could simply pull the posts towards each other! The structure would have a much higher probability of standing true and would be even stronger.

Originally, we had planned to stage the whole roof structure on the ground and call in a crane to lift it into place. Two problems became apparent. First, the area of usable space was very small. Second, a crane of that size needs very smooth access with no height changes in the approach. It can't even hop a curb!

So I hired a friend who is a forklift driver. He is very talented, not only with the physical controls, but more importantly with creative logistics and uses for the forklift. There were other hurdles, but the process went mostly as planned.

In talking with the forest service engineers about timber framing, a little secret was revealed. According to calculations, Timberline Lodge did not perform very well for lateral load resistance. Although its ability to shoulder snow loads is off the charts, its ability to resist toppling over is surprisingly lacking! Two things explain why so many timber frame structures have stood the test of time, even though knee braces in some structures seem inadequate:

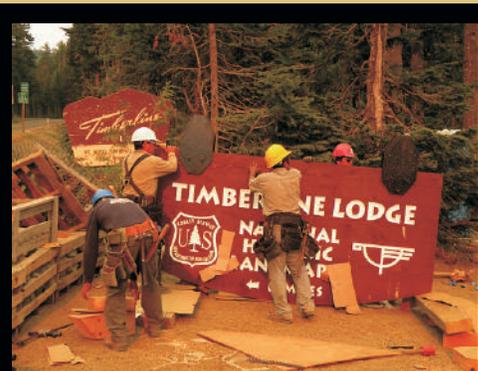
1) The sheer weight and mass of the heavy structure. In today's world of light construction, the mass of a structure is given no value in calculations to quantify its resistance to lateral movement.

2) Inherently strong geometric shapes and synergy. Calculating a structure's strength on a flat plane is easy. Doing so in a three-dimensional plane is a LOT tougher. In order to perform such a calculation, one would have to evaluate the entire structure's synergetic strength. It would also need to take into account how one portion of the structure could not collapse without resistance from adjoining portions.

Another fact which attests to Timberline's true strength is obvious... Storm after storm has swept over the mountain in the last 70 years and Timberline Lodge is still standing tall.

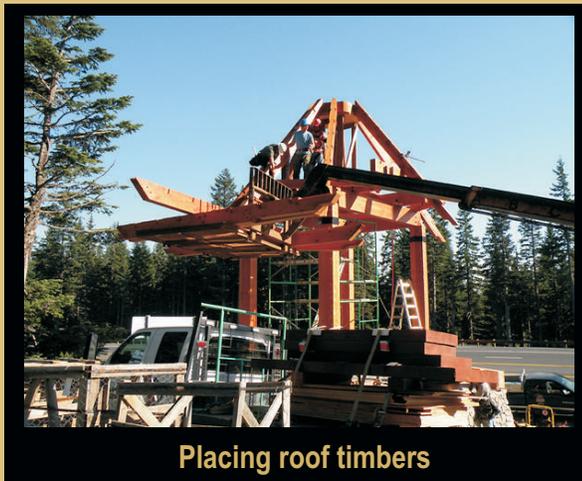
That was the smaller secret. The bigger blemish I didn't fully understand until a year later. And I still have conflicting feelings about the how the money was appropriated to fund the CCC stimulus projects.

What I'm about to tell you has



Constructing Timberline Signage

to do with a money system which violates honesty and trust. I don't think I can prevent the cycle between honest and dishonest money systems which has repeated itself throughout history. Rather, I am telling you this because I am all about honesty and trust. It galls me to see outright theft by those who claim they are looking out for us.



Placing roof timbers

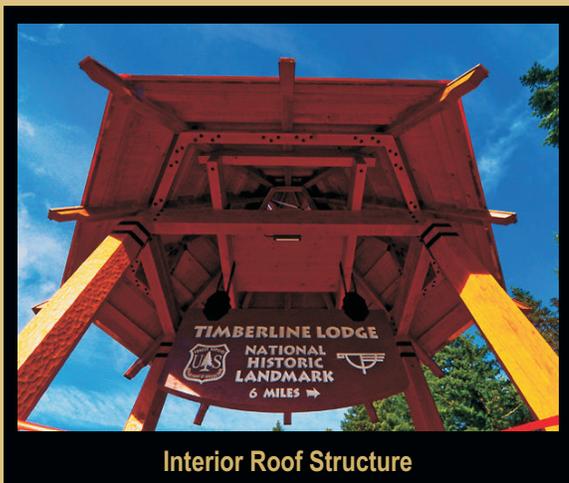
I stumbled across the bigger secret when the economy tanked in '09. I had begun to think about why things had fallen apart. I posed the following question: "What would you do if you were the king of a country?" Or, stated differently, "As a king, what kind of systems would you set up to keep everybody safe, fed, and content?" If you sit down and ask yourself the same question, you will see that economics is really about human nature. Don't be intimidated or fooled by deep theories. If you can understand how a barter system works, then you can understand how an economy works. Things that motivate governments are the same things which motivate you and me. You have to see it through their lens to understand their systems and policies.

When I began reading in earnest about economics, Timberline Lodge's dirty secret became apparent, little by little. It didn't dawn on me in a flash. **Did you know that Timberline Lodge was built by a system which both caused and prolonged the Great Depression? This system also has been the single cause of the American dollar's lost purchasing power since 1913, when America's fourth central bank was founded.**

Thomas Jefferson and former Federal Reserve chairman Alan Greenspan are among those who have opposed fiat or unbacked currencies. Nobel Prize winner for economics Milton Friedman has a succinct message: "The elementary truth is that the Great Depression was produced by government mismanagement of

money. It was not produced by the failure of private enterprise."

I wish Timberline's funding had been from clean money rather than so-called stimulus money. It would be much easier to think of this iconic structure as a symbol of the American spirit. Those craftsmen and workers at the CCC who were given jobs through the stimulus



Interior Roof Structure

packages did not realize that the hand feeding them was the same hand which inflicted the pain in the first place.

As upstanding citizens we have to make the most of the current situation. **Our collective honesty is the source of America's power and wealth.** If you have a chance to vote for a money system which promotes honesty and trust, I encourage you to do so.

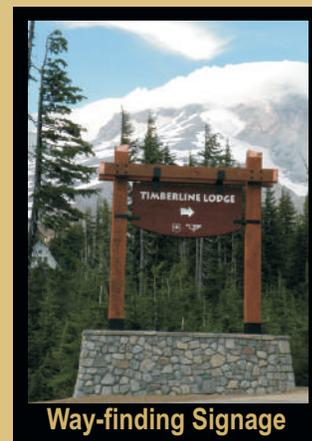
Just like the hard-working craftsmen back then, I can't buck the money system. I can simply try to act with integrity and honesty within my sphere of influence. I am glad the new Timberline signs were built by Arrow Timber Framing, as a tribute to the bygone craftsmen who constructed the Timberline Lodge itself.

Timberline Lodge is a gorgeous place. If you have not been there, book a night or go skiing there. You will leave with a lasting impression of a magnificent timber atmosphere – even if the Western Lodge style isn't what you would personally choose for the place you want to call home. Go check it out. You will have fun simply hanging out and absorbing the atmosphere!

To your goals, momentum, and success!

Bert Sarkkinen

FYI - Knowing that your dollar will buy you less and less, would it make sense to invest in a solid timber frame building or remodel? Maybe something iconic like Timberline Lodge, but built honestly and on a family-sized scale. If you decide to pursue a solid investment to share with your family and friends, I would be honored to help you in any capacity.



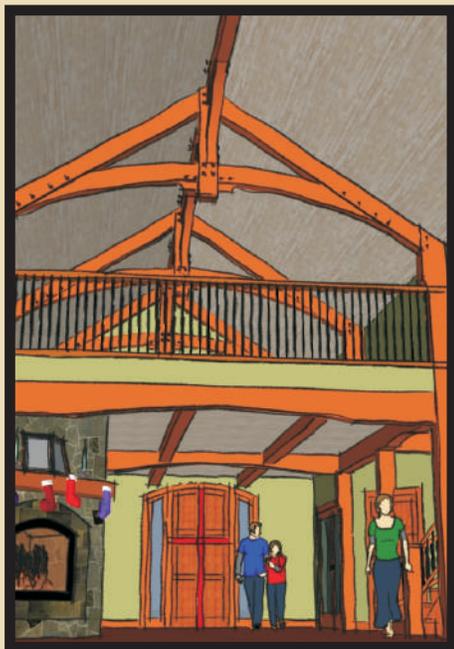
Way-finding Signage





THE SMILE EXPRESS

Happiness Is...



To remain stagnant is to die. Which is why you always want to reinvest a portion of your efforts, time, and money towards helping yourself and those you care about continually improve. Maybe you want to help your daughter's family expand their entertainment space. Maybe you want to learn another language. Maybe you want to sell your existing home and rebuild. Whatever it is you might want, keep it alive... feed it. **Make a habit of setting new goals!** Avoid coasting or resting upon your laurels... Because as you know, a life without purpose is like a rudderless ship. And you don't want to spring a happiness leak, no matter how small. Seek out, therefore, continual improvements and fortify your happiness!

... a sense of purpose.

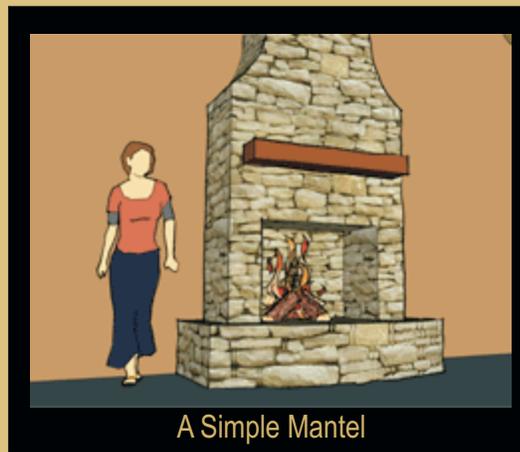
Mantel Inspiration is Easier Than You Think!

What does a mantel symbolize? Basically, a mantel symbolizes what is close to your heart. Fire and warmth are closely linked with survival. A fire in the living room means safety, relaxation, leisure, warm conversation with friends, etc. For me this means family time, relaxation at the end of the day, and a place free from the daily distractions related to work. What does a mantel symbolize for you?

Hopefully you will have the answers to your questions about mantels upon finishing this article. You will probably want to pause to visualize your mantel while you read. Keep a pen handy so you can jot down a note when inspiration flashes through your mind!

To start with, let me give you four examples of mantel styles. This will give you an idea of how many layouts are available and which elements you can use to personalize your mantel.

Pragmatic style is just a simple mantel to display family heirlooms. For those who want a simple, straightforward mantel, the decision process will include the following questions: What width is needed to place items upon the mantel? What is a desirable mantel height? What are the height and width criteria regarding fire safety? All of which is followed by: How big should our mantel be?



A Simple Mantel

For the pragmatic types, a mantel is just a simple solid mantel. They will think about embellishments only if it will serve a practical purpose, such as rounding or easing sharp edges. Corbels will be considered only if they are needed for support. The style question is simplified to "What dimensions will feel right for the fireplace and the room?"

Two defining factors of the **Western/Lodge style** are the massive size of the mantel and/or the simplicity of construction. If metal is used, it will be simple, rough and maybe even rusted. Perhaps a horseshoe or two will be mounted on the face of the mantel. Sometimes a western theme will be cut into the fire grate doors. Of course, the fireplace itself will be laid of stone, most likely bigger stones. A brick fireplace or very small stones

continued on Page 5

simply would not fit the Lodge style. All this just reinforces the need for holistic design and how we must balance it for the big picture. Maybe a split log mantel will fit your theme best?



Western Lodge Style
with Native American Influence

A Mountain Lodge style mantel, while

similar in regard to rustic style and massiveness, may be different in a few ways. The factors which will affect your mantel style the most will be ceiling height, vaulted or sloped ceiling and maybe even a loft area. With this added height and space, an elevated hearth and higher mantel elevation fit well. Perhaps multiple mantels stepping up the chimney would be an



Mountain Lodge Style mantel
with knee braces and double corbels

excellent showcase place for various pictures, wild game mounts, or other trophies. A freestanding fireplace may cry out for a four-sided mantel, one which creates a warm, inviting place to come together and nestle next to the heat.

It is hard to imagine a **European style mantel** without

conjuring up a picture of old castles. European style relies upon wood and stone for the starting canvas. The big difference is elegance - elegance in timber sizing, embellishments, and arches. A European style mantel could have complex joinery, ornate metal craft, and perhaps even a relief carving on the mantel's face. Unlike the Western Lodge mantel, finesse is required to size and detail the European mantel design.



European and Lodge styles mix
in freestanding fireplace with
copper hood

This style also goes well with an Italian or Mediterranean

atmosphere. Think lots of stucco, both inside and outside, and exposed timbers on the ceiling to call to mind Mediterranean style.

Sleek lines, uncluttered, atypical combinations, very open, and new are all adjectives which can be attributed to **Contemporary style**. Visual surprise is the "Ace in the Hole" of contemporary design. With that in mind, maybe an open fire pit with a large hanging hood in lieu of a mantel will add to your atmosphere the best. Perhaps a mantel with inlaid silver or gold artwork will add a touch of class, cause people to smile



Contemporary Style with reverse
support and small mantel size

and enjoy the surroundings. A plank of reclaimed wood supported by tension guy wires could fit well with the fireplace materials you intend to use.

The take-away for you today is that your choices of design are wide open. Even with something as simple as a mantel, you get to have fun getting what you want. To really expand your enjoyment and self-expression, let's go for your whole timber frame project!

Here's to your next action steps!

Bert

Bert Sarkkinen,
Owner



Special Offer

MEMORY LANE

One cold winter morning in Wyoming, I remember begging relentlessly to go to work with my father. Mom's warnings about it being a cold long day fell on my deaf 4 year old ears. Even though I had a bundle of clothes on, my toes and fingers became uncomfortable enough to implant this memory deep. I clearly remember whining to go home at least three or four times during the day, but this time, my whining fell upon deaf ears! Perseverance lesson #1!



Special Offer

Master Plan for Your Timber Remodel

How would you like to give your sweetheart a lasting Valentine's Day gift?

You've been considering that Timber Framing project together for a while... let us help you get started - **at no charge!**

The ATF team is standing by to help you brainstorm. Move your dreams toward reality with a complete custom Master Construction Plan... we'll waive the design deposit!

Just answer 10 questions telling us why YOUR special person deserves this one-time offer. If your project is selected, we'll get started right away!

Call immediately: (360) 687-1868

The first callers will be given special weight in selecting a winner!

Offer limited to one winner!



Arrow Tips Unfiltered

An Online Forum for Casual Expression

Arrow Tips Unfiltered is about exchanging information, opinions, and motivation in a private, casual environment. Post your project photos and get exclusive tips from pros while sharing with other Timber Framing enthusiasts!

The Quarterly Posts For Diamond Members

Diamond members are composed of the following people: past clients, reputable professional associates in good standing, and those who want to get ahead of the game in their planning with a small deposit toward their dreams.

- Nitty-gritty Pros versus Cons:
11 Countertop Ideas to Choose From
- Random Unfiltered Topic:
One Simple Rule to Abolish Couch Potato Syndrome
and other mental tricks to encourage physical activity
- Momentum Boost:
State your goals or share your story to spread motivation

arrowtimber.com/ArrowTipsUnfiltered/diamond

The Quarterly Posts For Platinum Plus Members

Platinum members, you know who you are.

- Opportunity Knocks... Ideas for Investments AND Good Memories
Resort Opportunity - Great Cash Flow or Pandora's Box?
- Action Steps to Increase Happiness:
Is Your Friend Envious? 4 Telltale Signs
- Accomplishment Log:
Document accomplishments or state your intentions for the next quarter to augment your motivation

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Interested in this exclusive and private forum?

Please email info@arrowtimber.com
or call **(360) 687-1868** to get your temporary password.

*Psst! Arrow Clients and Professional Associates...
It's also an easy way to fortify your New Year's resolution!*

Our Philosophy



People want things which reflect their personality.
People want an enjoyable process with a mutual exchange.
People want teamwork, transparency, and creative solutions.

I experience this over and over in the course of a year, not only when clients view albums or 3-D models in my office, but especially so immediately after the completion of their timber structure. Appreciative head nods and slow smiles have almost become a trademark!

I fell in love with the timber framing craft in 2002 and I still feel just as privileged and enthused. Many, many, personalized structures have been created since then. In fact, my passion, artistry, and repertoire of creative solutions have all grown dramatically... I sometimes wonder if it is simply something to do with rising to challenges and building upon success.

You probably agree that exposed beams provide geometric beauty and resonate deep within our psyche... The style brings to mind durability, longevity, safety, laughter, smiles, and home to many warm feelings.

The question: What is the best way for you to acquire your personalized timber living?

Not too much, not too little. Not too high, not too low. Just the right mix of timber presence and style... How to find that sweet spot which you can enjoy for years and pass on to your heirs. It's really about enriching the lives of those around you and sharing your unique personality and viewpoints with them.

The answer: Arrow Timber's guaranteed pain-free timber living acquisition process

I think the culture of mass-produced, one-size-fits-all merchandise is a happiness drain for far too many people. It is better to have a targeted life with purpose, than acquiring a lot of mediocre things for the sake of having them. Too much waste, clutter and frustration, I say. It is much better to emphasize and display your values with purposeful choices. And if you can acquire those choices and avoid the taint of painful experiences, consider yourself a winner! Which is why I guarantee, not only the personalized artistry we create, but also the process by which it is created!

Seek out and choose, therefore, things that will evoke head nods and slow smiles. Things which resonate with your personality. Things that do not grow old or boring the passage of time. You will not regret it.

To your goals, momentum, and success,

Bert Sarkkinen, Owner

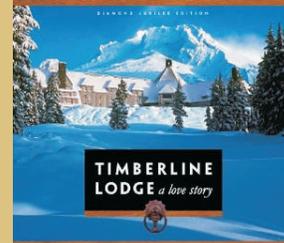


Recommended Reading

from the Arrow Team

Timberline Lodge: A Love Story, Diamond Jubilee Edition

The iconic Timberline Lodge was dedicated by Franklin Roosevelt in 1937 and designated a National Historic Landmark in



1977. This book celebrates the Lodge and the people who cared enough to build and then preserve it. The Diamond Jubilee

Edition is an updated version of the regional best seller originally released in 1987. It continues the story through a collection of personal essays. Six entirely new narratives present a dazzling collection of never-before-published photographs of this historic lodge and popular ski area.

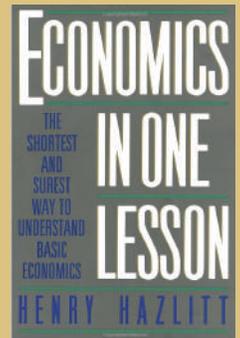
Grade: A

Economics in One Lesson by Henry Hazlitt

Henry Hazlitt explains how the invisible and unintended consequences of knee-jerk economic policies make your life more difficult than it

has to be. Expect to see more about his ideas on Arrow Tips Unfiltered. For example, the chapter titled "Who's "Protected" By Tariffs?" exposes the unseen burden caused by short-sighted protectionism. This is the best book on economics I've read so far.

Grade: A+





PO Box 37
Battle Ground, WA 98604



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Put Your Happiness On Display With Timber Living

ARROW TIPS

Put Your Happiness On Display With Timber Living

*Winter
Issue!*

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A Potent Dose of Deep Staying Power and Motivation!
Read on and find out...

... The hidden secret of Timberline Lodge

... 5 mantel ideas to consider

... How to avoid a happiness leak

... How ATF can guarantee a pain-free construction process

Pour yourself a cup of coffee and dig in!

Bert Sarkkinen
Owner

